



PUPIL'S COMPLETE INDEX NUMBER

Province District Sector School Level Pupil Year
· / City

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PUPIL'S FULL NAME

Surname:

Other Names:

P6 SCIENCE AND ELEMENTARY TECHNOLOGY

MARKING GUIDE

**COMPREHENSIVE TEST FOR P6 STUDENTS IN ALL ADEPR CHURCH
SCHOOLS FOR ACADEMIC YEAR 2023/2024**

Instructions:

1. Do not open and write anything on this question paper until you are told to do so.
2. Attempt all questions in this paper.
3. Answer the questions in the space provided in this paper.
4. Show you working steps clearly, marks will be given for showing steps.
5. You are allowed to use a mathematical set.
6. You are **not** allowed to use a calculator.



1. a) What is a simple machine? (1mark)

Is a tool that makes work easier.

- b) state any two type of simple machine (1mark)

lever, inclined plane pulley and wedges

2. a) Briefly the term living things (1mark)

They are things which have life

- b) Name two groups of living things (1mark)

animals and plants

3. Greasing, repairing, keeping in a dry and safe place -keeping in toolbox, cleaning. (1mark)

4. a. False b. True c. False d. False (2mark)

5. a) clay, wires, threads, old slippers (1mark)

- b) threads, sewing needle, ruler, razorblade, pair of scissors

6. a) explain the term galvanization (1mark)

It is the coating of iron or steel with zinc

- b) why should metallic tools be galvanized. (1mark)

To prevent rusting

- c) Which metal is mainly use to galvanize other metals. (1mark)

Zinc.

7. -Carbon dioxide is used in fire extinguisher(1mark)

-Carbon dioxide is used during photosynthesis/helps green -Plants in making their own food (1mark)

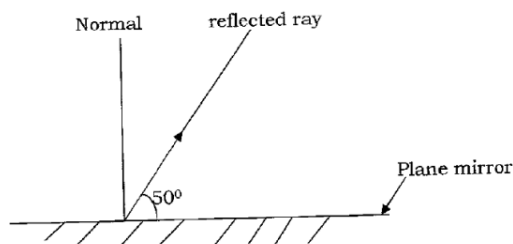
8. a) $D = M \div V = 95g \div 5cm^3 = 19g/cm^3$ (1mark)

- b) Sinking (1mark)

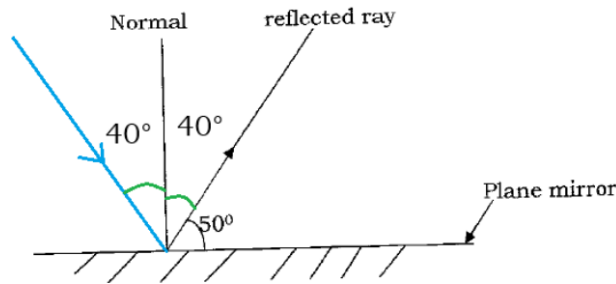
- c) Density of the body is greater that of water (1mark)

9. a) wooden door(1mark) b) glass in a window(1mark) c) sunglasses (1mark)

10. The diagram below shown a reflected ray of light and a plane mirror.



- a) Draw an incident ray on the diagram. (1mark)



b) What is the size of the angle of reflection? (1mark)

$$\begin{aligned}\text{The angle of reflection} &= 90^\circ - 50^\circ \\ &= 40^\circ\end{aligned}$$

11. a) Allow internet users to find specific information from the web Based on keyword criteria that is entered by the user. (1marks)

b) Google, Bing, Yahoo, Ask, MSN, Wikipedia, Netscape (1mark)

12. a) An earthworm is called an invertebrate because(1mark)
it does not has a backbone.

13. Give any two functions of skeleton. (1 marks)

It gives us body shape.

It protects soft organs

14. a) W: Bile P: Gastric juice (2mark)

b) Y: Pancreas X: Large intestine (colon) (2mark)

15. -many industries, vehicle, machines etc (1mark)

16. a) making/ creating new materials from wastes (1mark)

b) plastics, metals, glass (1marks)

17. Write two source of artificial light (1 marks)

Torch, candle and bulb.

18. Why is a moon not regarded as a natural south of light? (1mark)

it reflects light from the sun.

It does not produce its own light.

19. Which form of energy is commonly used to: (1 marks)

a) Make cars move?

kinetic energy and electric energy

b) Enable human being to see?

Light energy

20. State any two properties of metals. (1mark)

they are sonorous

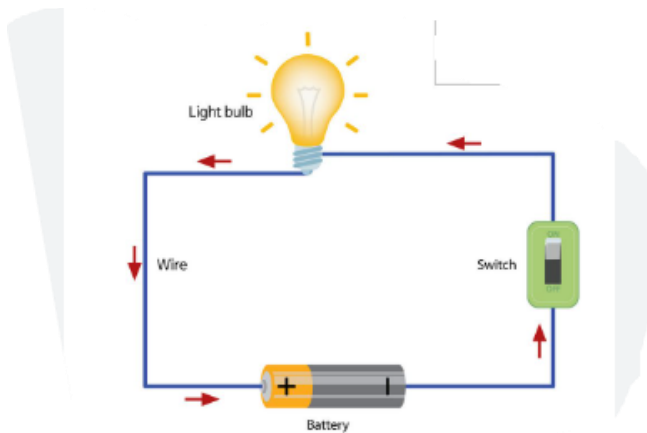
They are good conductors of both heat and electricity

They are hard and strong

The produce sound when hit them.



21. Draw a simple electric circuit composed of two cells in series, a lamp and a switch and label each component. (2 marks)
22. a. fertilization is the union of female (ovules) and male gametes (pollen grains) while pollination is the transfer of pollen grains from anthers to the stigma(2mark)
- b) fertilization takes place in ovary.(1mark)
- c) ovules become seeds and ovary develops into a fruit (1marks)



23. Complete these those sentences (1 marks)
- a) The area of a magnet where the magnetic force is strongest is called **The magnetic field.**
- b) An instrument which uses magnets to show directions is known as **Magnetic compass**
24. a) In human beings, what are the names of: (3 marks)
- i)Male sex cells:**Sperms**
- ii)Female sex cell: ...**Ovum**
- b)The process by which an ovary releases an ovum after 28 days is known as **Ovulation**
- 25.) suckers / banana plantlet(1mark)
- b) cutting(1mark)
- c) grafting(1mark)
26. a)HIV: Human Immuno-deficiency virus(1mark)
- b)Abstinence/ avoid sexual intercourse(1marks)
27. a) Is a way of controlling the wastes by keeping them in appropriated place with classifying them. (1mark)
- b) i) Biodegradable Kitchen garbage Vegetable remains ,animal dung (2mark)



c) i) Reduce ii) Reuse iii) Recycle (3mark)

28. Carbon Monoxide Nitrogen dioxide Carbon Dioxide (3mark)

29. What do the following terms refer to as used in scratch? (2 marks)

a) Sprite: **is an object that perform in scratching.....**

b) Animation...**is the giving of an object human characteristic like talking, crying walking, etc.**

30. a) Name two natural resources in the environment that enable green plant to make their own food. (2 marks)

Water, carbon dioxide, sunlight and chlorophyll.

b)What is the name of the process in (a) above? (1 mark)

Photosynthesis

c)What gas is given off during this process (1 mark)

oxygen

31. Describe the characteristics of a solid in the term of mass and volume

solid has a fixed mass

(1 mark)

solid has a fixed volume.

32. a) State any one material you use in the classroom to support your learning process (1 mark)

note books, textbooks, pens, etc.

b) How do you take care of your learning materials? (1 mark)

Handled with care

Some learning materials should be hang on wall inside the classroom.

33. a) A: Anther B: Filament C : Petals ii) Cough D: Stigma E: Style F: Ovary (3mark)

b) A: Produces pollen grains B: Holds anthers C: Attracts agents of pollination (3mark)

34. Match the following parts of the ear to their function (4 marks)

<u>Part of ear</u>	<u>function</u>
a) Cochlea	i) it carries message to the brain
b) Pinna	ii) it directs sound to the eardrum
c) Auditory nerve	iii) it collect sound waves from the ear
d) Auditory canal	iv) it is the hearing organ of the ear.

35. Identify any two secondary sexual characteristics develop during puberty in boys and in girls. (2 marks)

a) In boys: **voice changes**

Bending shoulder

Wet dream start

b) In girls: **breasts develop**

Hips widen

Menstruation start.



36. (5mark)

- | | | |
|-------------|---|----------|
| a) Ctrl + y | → | 1. Redo |
| b) Ctrl + z | → | 2. Undo |
| c) Ctrl + v | → | 3. Cut |
| d) Ctrl + x | → | 4. Paste |
| e) Ctrl + c | → | 5. Copy |

37. Where in the digestive system the following take place. (2 marks)

- a) Absorption of food nutrients: **in small intestine**
- b) Absorption water: **in large intestine**

38. a) what is family (1mark)

✓ **family planning are way avoiding unwanted pregnancy**

b) Mention any two methods of avoiding unwanted pregnancy (2 marks)

- ✓ **Abstaining from sex**
- ✓ **Using condom**
- ✓ **Using contraceptive methods**

39. a) Arteries, veins, capillaries. (3mark)

b) By eating balanced diet, through regular exercises, drinking plenty of water and fluids, avoiding sex before marriage. (2 mark)

40. a) Which **Interface** is shown on the figure? (5mark)

Sugar interface

b) Name the icons labeled with letter

- i. A : **Write Activity**
- ii. B : **Journal**
- iii. C : **Scratch**

c) What is the role of icon labeled by the letter **B** ?

Everything you do is saved in Journal

WE WISH YOU SUCCESS IN PRIMARY LEAVING EXAMINATIONS !